

# Spirent EVCI

## Efficient Virtualized Continuous Integration (EVCI) Solution

Spirent EVCI delivers a solution to improve organizations' ability to build, test and deploy software, to shorten test cycles, reduce costs and improve quality. Leveraging iTest automation, this solution is developed by Spirent engineers who are experts in Continuous Integration (CI), virtualization and automation, to deliver a low-cost virtualized build, test and deployment environment.

Too many organizations who adopted next-generation cloud solutions are not seeing the expected ROI with virtualization, CI and automation software. The lack of integration between these tools and technologies greatly reduces the benefits of cloud computing and virtualization. In addition, the capital and operational costs of deploying virtualized build, test and deployment environments can quickly erode cost savings from increased efficiency.

In addition to these challenges, configurations and workflows are complex and deployers must possess expertise with multiple applications and platforms. The resulting environments are often fragile and at risk for outages which can dramatically increase downtime and costs and threaten an organization's profitability.

In an increasingly competitive global market, companies must deliver high quality products and services to market in a cost effective and timely manner. Organizations require automated and scalable solutions to improve their ability to build, test and deploy software in order to:

- Improve quality
- Reduce capital and operational costs
- Shorten release cycles

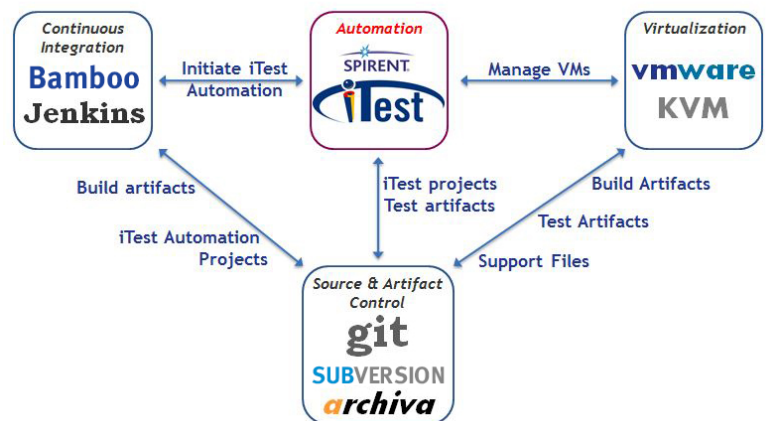
In order to deliver significant improvement, these solutions must

- Enable scalability through virtualization
- Enable robust configuration management through version control
- Enable automation through Continuous Integration and iTest

### The Spirent EVCI Solution

The Spirent EVCI Solution leverages iTest automation to manage the integration between CI and the virtual environment. iTest has built-in sessions that can create, start, stop and manage VMs for VMware and open source hypervisors (KVM, QEMU, OpenStack). iTest instances are easily integrated into CI workflows.

Spirent engineers are experts in CI, virtualization and automation. Our engineers can design, build and deploy a low-cost virtualized build, test and deployment environment or simply improve upon your existing capabilities. EVCI solutions are tailored to meet the customer's specific needs and testing objectives, and are delivered in a timely effective manner in sync with the customer's expectations.



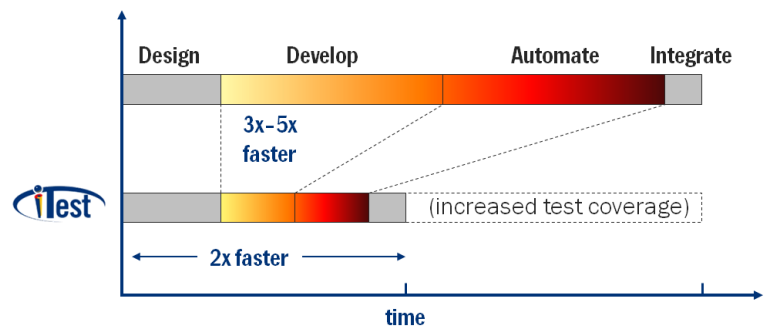
Solution Architecture

## The Spirent EVCI Solution Delivers:

- Capability Assessment
  - ▶ Analyze existing build, test and deployment environment
  - ▶ Assess the existing virtualization, CI and automation capabilities
- Virtualization
  - ▶ Implement new CI capability
  - ▶ Enhance existing virtualization capability
- Continuous Integration
  - ▶ Implement new CI capability
  - ▶ Enhance existing CI capability
- Automation
  - ▶ Integrate iTest within CI environment to manage VMs
  - ▶ Automate QA testing with iTest
- System Integration Testing
  - ▶ Test automated VM control, build, test and deployment workflows
  - ▶ Update source control and artifact management
- Training
  - ▶ iTest training for automated testing and virtualization management
  - ▶ Train users on CI and hypervisor software
- Documentation
  - ▶ Document configuration environment and settings
  - ▶ Deliver detailed report on solution details

## Benefits and Advantages

- Shortened test and release cycles
- Reduced costs
- Improved quality
- Reliable solution that works exactly as planned
- Tangible ROI
- Qualified solution architects, as well as test and automation experts: no need for dedicated test resources



## Spirent Services Expertise

Spirent provides services expertise for all major communications vendors. Our test methodology and automation experts include IETF engineers and RFC authors who have developed many of the industry's acclaimed benchmarks. They help define standards and performance tests for dozens of industry forums and standards bodies. Such industry expertise optimizes your solution capabilities and ensures you deliver your product or service to market on time.

## Our Customers

Spirent has been a pioneer since the advent of network testing and has provided services to customers across a broad range of global industries. These varied business sectors include telecommunications and wireless service providers, network equipment manufacturers, petroleum, education, the media, financial institutions and stock exchanges, technology enterprises and publishing giants. Spirent also services government organizations which includes military and space agency projects.

For more information, contact your local Spirent representative.

AMERICAS [solutions-na@spirent.com](mailto:solutions-na@spirent.com)

EUROPE AND THE MIDDLE EAST [solutions-emea@spirent.com](mailto:solutions-emea@spirent.com)

ASIA PACIFIC [solutions-apac@spirent.com](mailto:solutions-apac@spirent.com)

© 2014 Spirent Communications, Inc. All of the company names and/or brand names and/or product names and/or logos referred to in this document, in particular the name "Spirent" and its logo device, are either registered trademarks or trademarks pending registration in accordance with relevant national laws. All rights reserved. Specifications subject to change without notice. Rev. B 04/14

